



# Precision Strike Review

## “PRECISION EFFECTS”

*Air Vice-Marshal **Nigel Day** RAF (Rtd)*  
*Senior Defence Adviser*

# PRECISION EFFECTS



- **“Capability”?**
- **UK Air 1915 – 2000**
- **STORM SHADOW**
- **UK Air 2000 +**

# PRECISION EFFECTS



- “Capability”?

**“CAPABILITY”?**

**NCW?**

**NEC?**

# “CAPABILITY”?

N

E

C

# “CAPABILITY”?

**N**ETWORK +

**E**FFECT =

**C**APABILITY

# PRECISION EFFECTS



- **“Capability”?**
- **UK Air 1915 – 2000**

## NETWORK - 1915





## EFFECTS - 1915



# UK AIR 1915 - 2000

NETWORK

EFFECT

1915

Basic

Dumb Weapons

# UK AIR 1915 - 2000

NETWORK

EFFECT

1915

Basic

Dumb Weapons

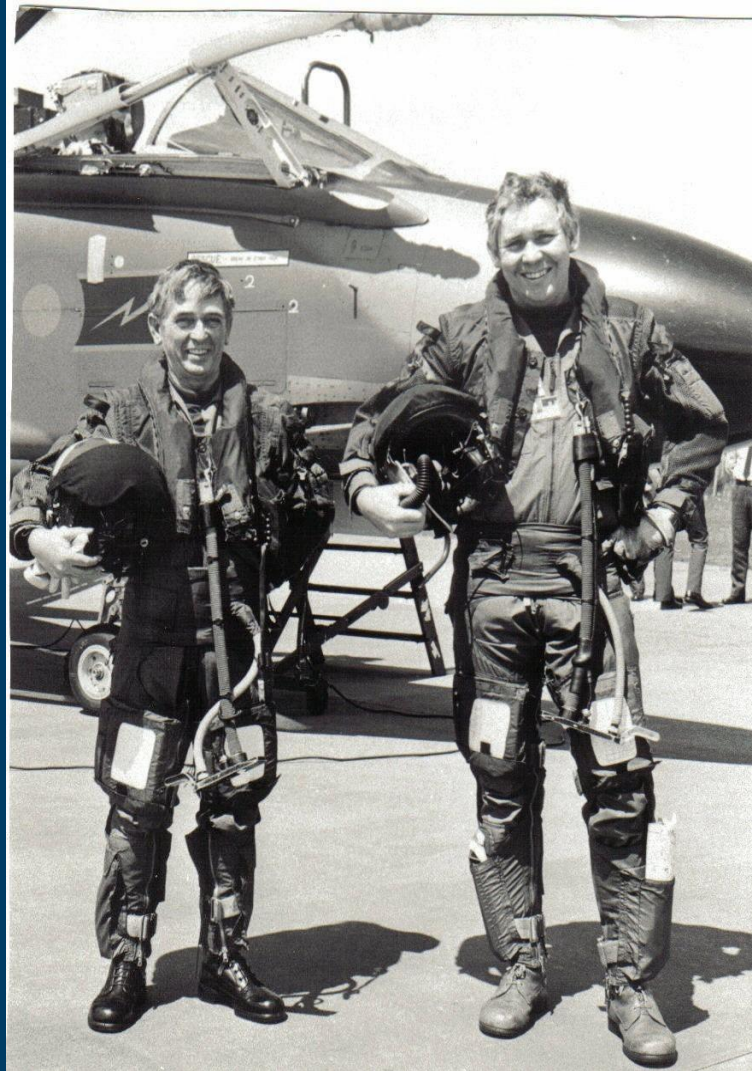
1990

?

?

# UK AIR 1915 - 2000

1990



# UK AIR 1915 - 2000

## NETWORK

## EFFECT

**1915**

**Basic**

**Dumb Weapons**

**1990**

**Insecure Radio Dumb Weapons**

## PAVE WAY PRECISION WEAPONS

- USA 60s
- RAF 80s



# UK AIR 1915 - 2000

## NETWORK

## EFFECT

**1915**

**Basic**

**Dumb Weapons**

**1990**

**Secure Radio**

**Dumb Weapons**

**2000**

**TDL**

**Precision Weapons**

## PRECISION EFFECT

- **The Required Effect, no more, no less**
- **At Required Time, for Required Time, 24/7**
- **Across range of Decisive Opportunities**



# PRECISION EFFECTS

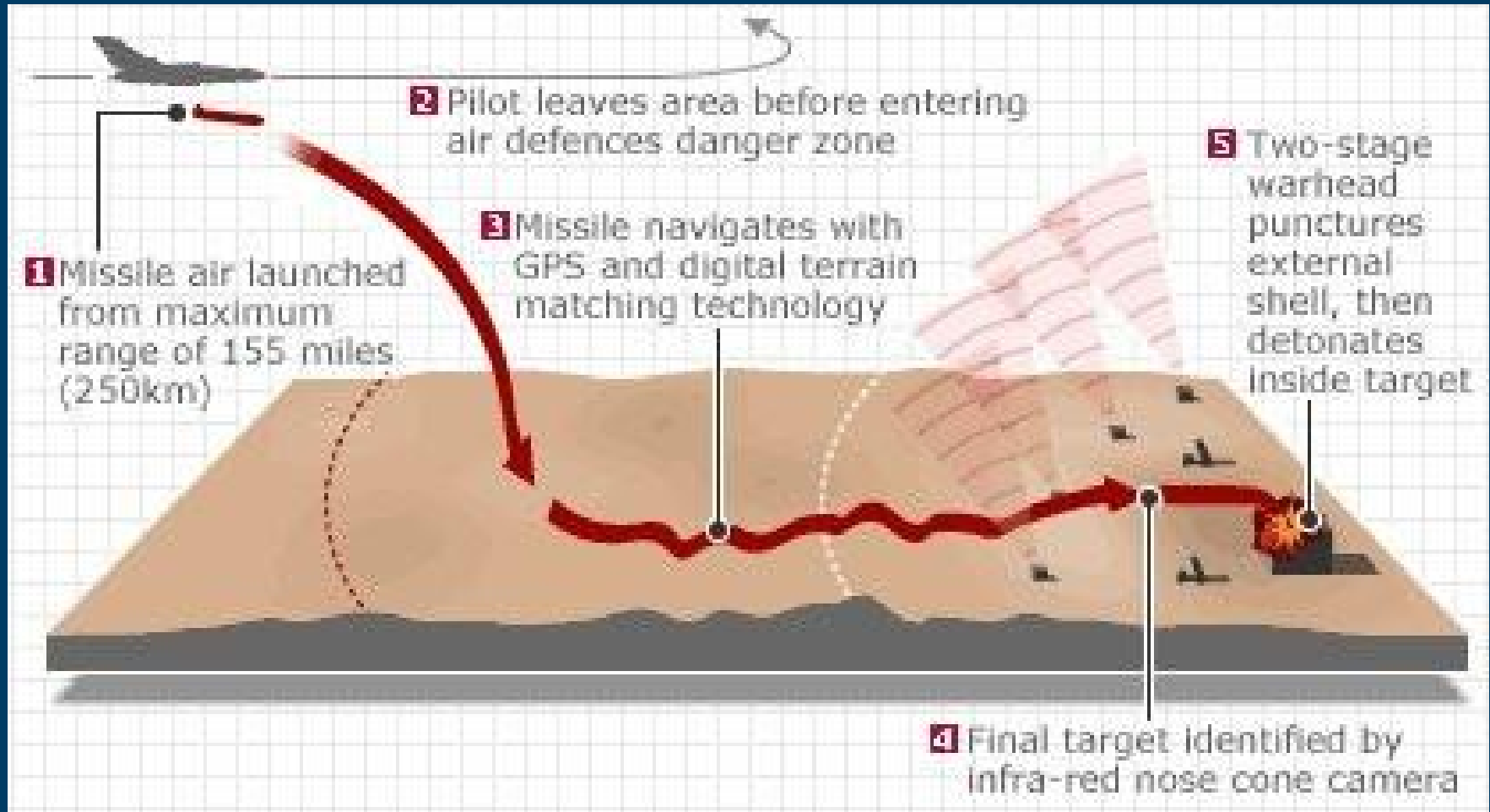


- **“Capability”?**
- **UK Air 1915 – 2000**
- **STORM SHADOW**

# STORM SHADOW

2003







# STORM SHADOW



# STORM SHADOW





# STORM SHADOW

## PRECISE EFFECT



**2003 Storm Shadow first used in Operation TELIC**

# STORM SHADOW



# PRECISION EFFECTS



- **“Capability”?**
- **UK Air 1915 – 2000**
- **STORM SHADOW**
- **UK Air 2000 +**



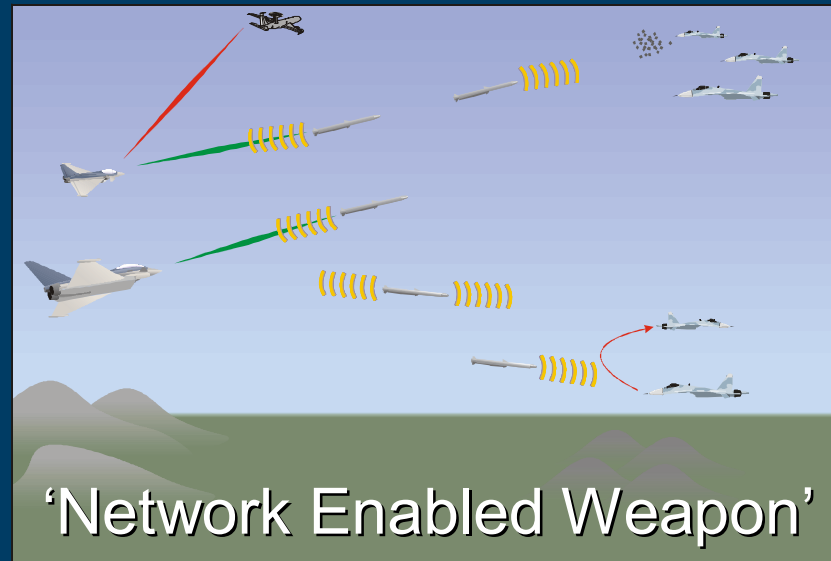
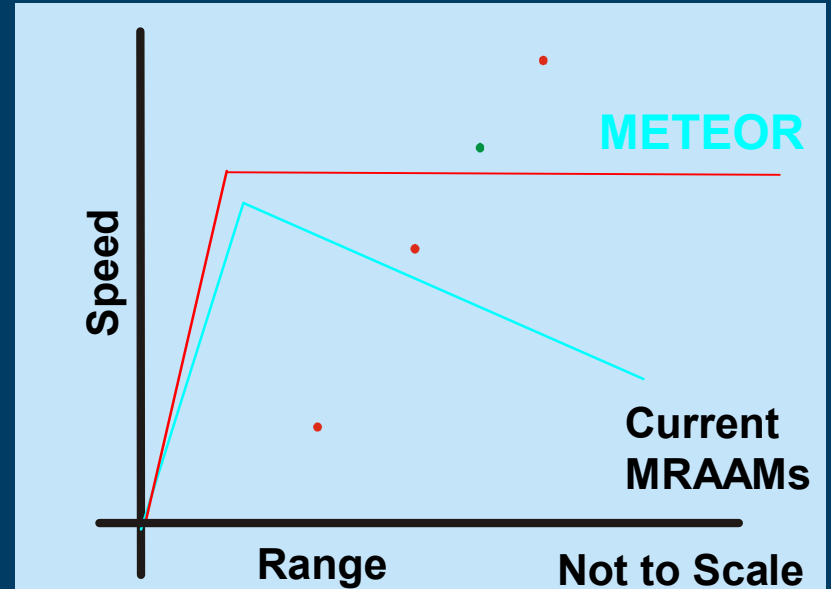
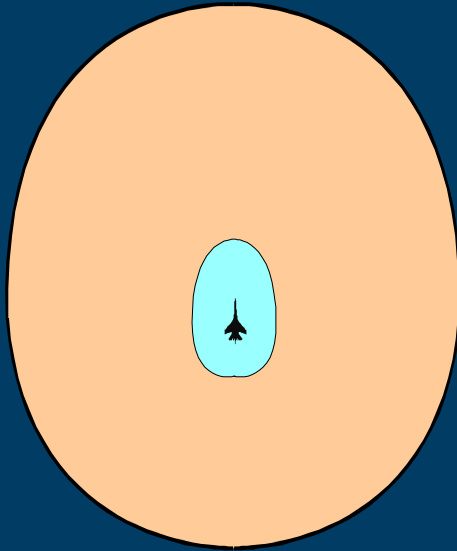
## BRIMSTONE 2005



## METEOR



## No Escape Zone

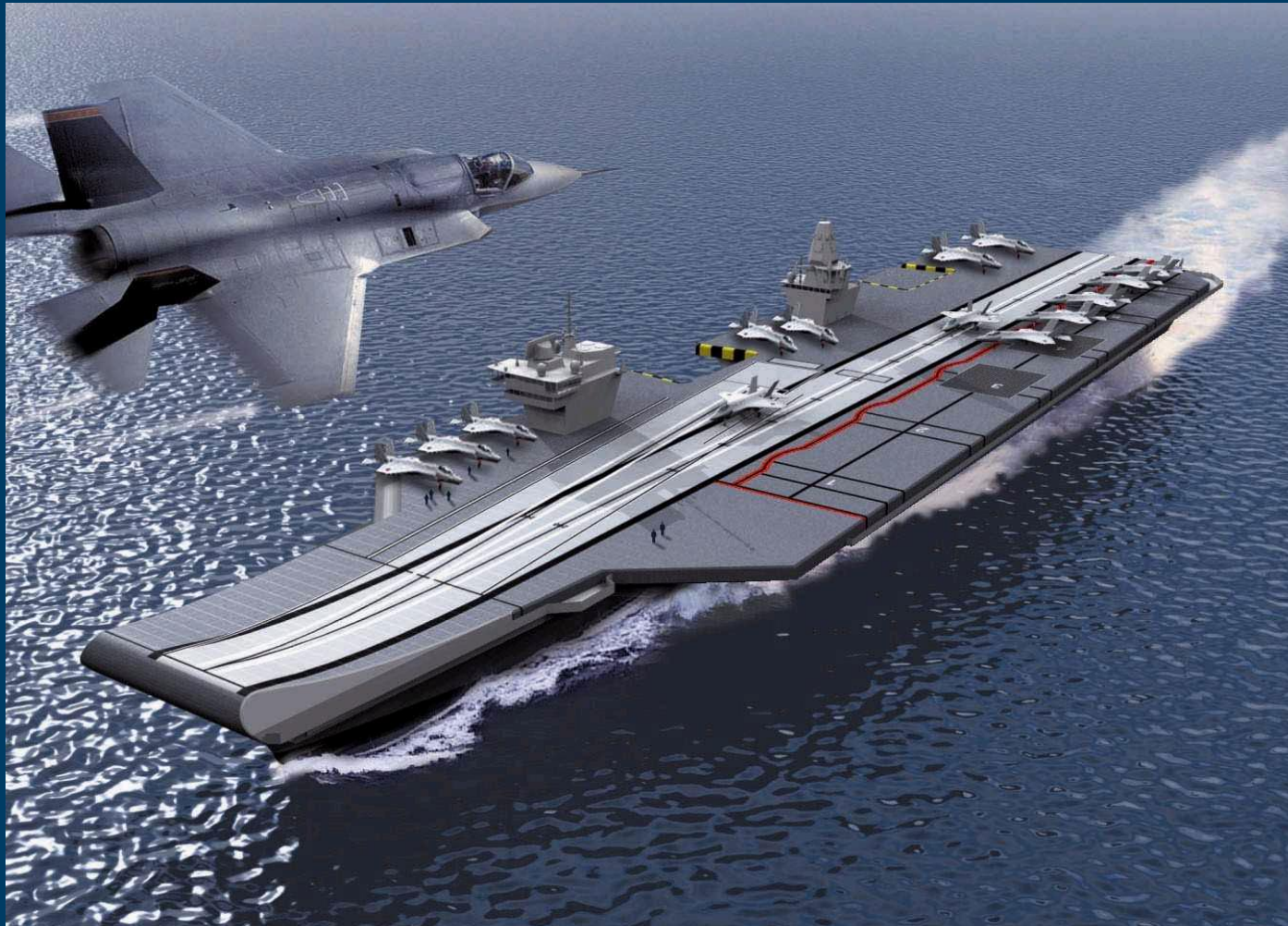


'Network Enabled Weapon'

**MBDA**

MISSILE SYSTEMS

## CV(F)/JCA 2020





## NETWORK

## EFFECT

1915	Basic	Dumb Weapons
1990	Secure Radio	Dumb Weapons
2000	TDL	Precision Weapons
2006	TDL+	Precision Effects

2020 Precision Decisions, Precision Effects  
(< ? Minutes Kill Chain)



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# STORM SHADOW

# STORM SHADOW

